

Marked Up Version Of The Pending Claims under 37 C.F.R. 1.121(c)(1)(ii): In accordance with 37 C.F.R. 1.121(c)(1)(ii), the Applicant submits the following marked up version only for claims being changed by the current amendment, wherein the markings are shown by strikethrough (for deleted matter) and/or underlining (for added matter):

**Amendment to the Claims**

1. (Amended) A method for regulating the operation of a digital radiography detector comprising:
  - detecting a first triggering event;
  - acquiring environmental condition data from digital radiography detector;
  - automatically changing an operating state of the digital radiography detector based on said detected first triggering event;
  - determining a variable time interval triggering event from changed operating state of the digital radiography detector and acquired environmental condition data;
  - detecting a second triggering event; and
  - automatically changing the operating state of digital radiography detector at the occurrence of either one of a second triggering event and determined variable time interval triggering event[.];
  - wherein internal temperature exceeding a preselected level and battery capacity below a preselected level causes the determined variable time interval triggering event to be substantially zero.

2. (Previously Presented) A method to regulate the operation of a digital radiography detector according to claim 1, wherein operating state of digital radiography detector is an off state, standby state, and an on state.

3. (Previously Presented) A method to regulate the operation of a digital radiography detector according to claim 2, wherein an on state causes relative to an off state and a

standby state an increase in internal temperature, voltage consumption, power consumption, or battery usage;

wherein a standby state causes relative to an off state an increase in internal temperature, voltage consumption, power consumption, battery usage; and

wherein a change from on state to standby state causes a decrease in internal temperature, voltage consumption, power consumption, battery usage.

4. (Original) A method to regulate the operation of a digital radiography detector according to claim 3, wherein environmental condition data is one of battery status, battery capacity, error status, internal temperature, ambient temperature, operating state, diagnostic data.

5. (Original) A method to regulate the operation of a digital radiography detector according to claim 4, wherein the variable time interval triggering event substantially begins when the first triggering event is detected.

6. (Original) A method to regulate the operation of a digital radiography detector according to claim 5, wherein an end of variable time interval triggering event is based on the operating state of the digital radiography detector and environmental condition data.

7. (Canceled) ~~A method to regulate the operation of a digital radiography detector according to claim 6, wherein internal temperature exceeding a preselected level and battery capacity below a preselected level causes the determined time interval triggering event to be substantially zero.~~

8. (Amended) A method to regulate the operation of a digital radiography detector according to claim 1, wherein operating state is internal temperature, voltage consumption, power consumption, or battery usage;

wherein environmental condition data is one of battery status, battery capacity, error status, internal temperature, ambient temperature, and diagnostic data;

wherein the variable time interval triggering event substantially begins when the first triggering event is detected; and

wherein end of variable time interval triggering event is based on the operating state of the digital radiography detector and environmental condition data; ~~and~~ .

~~wherein internal temperature exceeding a preselected level and battery capacity below a preselected level causes the determined time interval triggering event to be substantially zero.~~

9. (Amended) A computer-accessible medium having executable instructions to regulating the operation of a digital radiography detector, the executable instructions capable of directing a processor to perform:

detecting a first triggering signal;

acquiring environmental condition data from the digital radiography detector;

changing operating state of the digital radiography detector based on said detected first triggering signal;

determining a variable time interval triggering event from changed operating state of the digital radiography detector and acquired environmental condition data;

detecting a second triggering signal; and

changing operating state of the digital radiography detector at the occurrence of either one of a second triggering signal or a determined variable time interval triggering event[.];

wherein internal temperature exceeding a preselected level and battery capacity below a preselected level causes the determined variable time interval triggering event to be substantially zero.

10. (Original) The computer-accessible medium of claim 9, wherein the operating state of the digital radiography detector is selected from the group of states consisting of an off state, a standby state, and an on state.

11. (Original) The computer-accessible medium of claim 10, wherein the on state causes relative to an off state and a standby state an increase in internal temperature,

voltage consumption, power consumption, and battery usage of the digital radiography detector;

wherein a standby state causes relative to an off state an increase in internal temperature, voltage consumption, power consumption, battery usage; and

wherein a change from on state to standby state causes a decrease in internal temperature, voltage consumption, power consumption, battery usage.

12. (Original) The computer-accessible medium of claim 9, wherein the environmental condition data is selected from the group of data consisting of a battery status, a battery capacity, an error status, an internal temperature, an ambient temperature, an operating state, and a diagnostic data.

13. (Original) The computer-accessible medium of claim 12, wherein the variable time interval triggering event substantially begins when the first triggering signal is detected.

14. (Original) The computer-accessible medium of claim 13, wherein an end of variable time interval triggering event is based on the operating state of the digital radiography detector and environmental condition data.

15. (Canceled) ~~The computer-accessible medium of claim 14, wherein the computer-accessible medium further comprises instructions capable of directing a processor to perform: causing the determined time interval triggering event to be substantially zero when internal temperature exceeds a preselected level and when a battery capacity is below a preselected level.~~

16. (Previously Presented) The computer-accessible medium of claim 9, wherein operating state is internal temperature, voltage consumption, power consumption, battery usage;

wherein environmental condition data is one of battery status, battery capacity, error status, internal temperature, ambient temperature, and diagnostic data;

wherein the variable time interval triggering event substantially begins when the first triggering signal is detected;

wherein end of variable time interval triggering event is based on the operating state of the digital radiography detector and environmental condition data; and

wherein internal temperature exceeding a preselected level and battery capacity below a preselected level causes the determined time interval triggering event to be substantially zero.

17. (Amended) A system for regulating the operation of a digital radiography detector comprising:

a processor;

a storage device coupled to the processor;

software means operative on the processor for:

detecting a first triggering event;

acquiring environmental condition data from a digital radiography detector;

automatically changing operating state of digital radiography detector based on said detected first triggering event;

determining a variable time interval triggering event from a changed operating state of digital radiography detector and acquired environmental condition data of the digital radiography detector;

detecting a second triggering event; and

changing the operating state of digital radiography detector at the occurrence of either one of a second triggering event and determined variable time interval triggering event[.];

wherein internal temperature exceeding a preselected level and battery capacity below a preselected level causes the determined variable time interval triggering event to be substantially zero.

18. (Previously Presented) The system of claim 17, wherein operating state of digital radiography detector is an off state, standby state, or an on state, at different times.

19. (Previously Presented) The system of claim 17, wherein an the state causes relative to the off state and the standby state, an increase in internal temperature, voltage consumption, power consumption, and battery usage of the digital radiography detector;

wherein the standby state causes relative to the off state an increase in internal temperature, voltage consumption, power consumption, and battery usage of the digital radiography detector; and

wherein a change from the on state to the standby state causes a decrease in internal temperature, voltage consumption, power consumption, and battery usage of the digital radiography detector.

20. (Previously Presented) The system of claim 19, wherein the environmental condition data is one of a battery status, a battery capacity, an error status, an internal temperature, an ambient temperature, an operating state, and diagnostic data.

21. (Previously Presented) The system of claim 20, wherein the variable time interval triggering event substantially begins when the first triggering event is detected.

22. (Previously Presented) The system of claim 21, wherein an end of the variable time interval triggering event is based on the operating state and the environmental condition data of the digital radiography detector.

23. (Canceled) ~~The system of claim 22, wherein internal temperature exceeding a preselected level and battery capacity below a preselected level causes the determined time interval triggering event to be substantially zero.~~

24. (Amended) The system of claim 17, wherein the operating state includes internal temperature, voltage consumption, power consumption, and battery usage;

wherein environmental condition data is one of battery status, battery capacity, error status, internal temperature, ambient temperature, and diagnostic data;

wherein the variable time interval triggering event substantially begins when the first triggering event is detected;

wherein end of variable time interval triggering event is based on the operating state of the digital radiography detector and environmental condition data[[]] .

~~wherein internal temperature exceeding a preselected level and battery capacity below a preselected level causes the determined time interval triggering event to be substantially zero.~~

25. (Amended) A system for regulating the operation of a digital radiography detector comprising:

medical imaging detector coupled to a controller;

a processor electrically coupled to the medical imaging detector;

a storage device coupled to the processor;

software means operative on the processor for:

detecting a first triggering event;

acquiring environmental condition data from a digital radiography detector;

automatically changing operating state of digital radiography detector based on said detected first triggering event;

determining a variable time interval triggering event from changed operating state of digital radiography detector and acquired environmental condition data;

detecting a second triggering event;

automatically changing operating state of digital radiography detector at the occurrence of either one of a second triggering event and determined variable time interval triggering event;

wherein an operating state of the digital radiography detector is selected from the group consisting of an off state, standby state, and an on state;

wherein an on state causes relative to an off state and a standby state an increase in internal temperature, voltage consumption, power consumption, battery usage;

wherein a standby state causes relative to an off state an increase in internal temperature, voltage consumption, power consumption, battery usage; and

wherein a change from on state to standby state causes a decrease in internal temperature, voltage consumption, power consumption, battery usage[.]; and wherein internal temperature exceeding a preselected level and battery capacity below a preselected level causes the determined variable time interval triggering event to be substantially zero.

26. (Amended) An apparatus for regulating the operation of a digital radiography system comprising:

a receiver of a first triggering signal;

a device for acquiring environmental condition data from digital radiography detector;

a device for changing operating state of digital radiography detector based on said detected first triggering event;

a determiner of a variable time interval triggering event from changed operating state of digital radiography detector and acquired environmental condition data;

a receiver of a second triggering event; ~~and~~

a device for changing operating state of digital radiography detector at the occurrence of either one of a second triggering event and determined variable time interval triggering event[.]; and

wherein internal temperature exceeding a preselected level and battery capacity below a preselected level causes the determined variable time interval triggering event to be substantially zero.

27. (Previously Presented) An apparatus according to claim 26, wherein operating state of digital radiography detector is one of an off state, standby state, and an on state.

28. (Original) An apparatus according to claim 27, wherein an on state causes relative to an off state and a standby state an increase in internal temperature, voltage consumption, power consumption, battery usage;

wherein a standby state causes relative to an off state an increase in internal temperature, voltage consumption, power consumption, battery usage; and



wherein a change from on state to standby state causes a decrease in internal temperature, voltage consumption, power consumption, battery usage.

29. (Previously Presented) An apparatus according to claim 28, wherein environmental condition data is one of battery status, battery capacity, error status, internal temperature, ambient temperature, operating state, and diagnostic data.

30. (Original) An apparatus according to claim 29, wherein the variable time interval triggering event substantially begins when the first triggering event is detected.

31. (Original) An apparatus according to claim 30, wherein end of variable time interval triggering event is based on the operating state of the digital radiography detector and environmental condition data.

32. (Canceled) ~~An apparatus according to claim 31, wherein internal temperature exceeding a preselected level and battery capacity below a preselected level causes the determined time interval triggering event to be substantially zero.~~

33. (Amended) An apparatus according to claim 26, wherein operating state is internal temperature, voltage consumption, power consumption, or battery usage;

wherein environmental condition data is one of battery status, battery capacity, error status, internal temperature, ambient temperature, and diagnostic data;

wherein the variable time interval triggering event substantially begins when the first triggering event is detected[.];

wherein end of variable time interval triggering event is based on the operating state of the digital radiography detector and environmental condition data; and,

~~wherein internal temperature exceeding a preselected level and battery capacity below a preselected level causes the determined time interval triggering event to be substantially zero.~~

34. (Original) An apparatus according to claim 33, wherein the receiver, the device for changing and the determiner are components within a computer.

35. (Canceled )

36. (Canceled )

37. (Canceled )

38. (Canceled )

39. (Canceled )

40. (Canceled )

41. (Canceled )

42. (Canceled )

43. (Canceled )

44. (Canceled )

45. (Canceled )

46. (Canceled )

47. (Canceled )

48. (Canceled )

49. (Canceled )

50. (Canceled )

51. (Canceled )

52. (Canceled )

53. (Canceled )

54. (Canceled )

55. (Canceled )

56. (Canceled )

57. (Amended) A method to manage power consumption of a ~~device~~ digital radiography detector to regulate the internal temperature of the ~~device~~ digital radiography detector comprising:

determining battery status, battery capacity, error status, internal temperature, ambient temperature, and operating state of the digital radiography detector ;

receiving an activation signal;  
changing said device from an off power consumption state to an idle power consumption state based on said activation signal;  
receiving a deactivation signal and a predictor signal;  
changing said device upon the occurrence of both received deactivation signal and predictor signal to an on state power consumption;  
changing said device upon the occurrence of the deactivation signal to the off state power consumption;  
wherein a change from a standby state to the on state causes an increase in internal temperature, voltage consumption, power consumption, and battery usage of the digital radiography detector; ~~and~~  
wherein a change from a standby state to the off state causes a decrease in internal temperature, voltage consumption, power consumption, and battery usage of the digital radiography detector[.]; and  
wherein internal temperature exceeding a preselected level and battery capacity below a preselected level can cause an occurrence of the deactivation signal.